

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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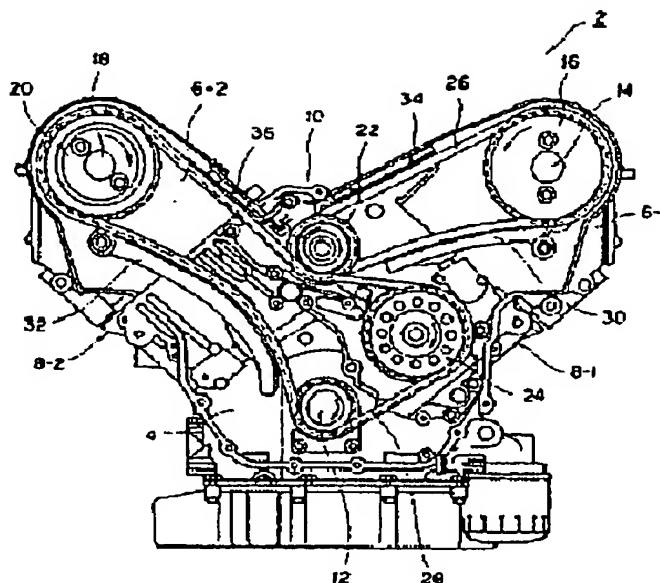
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TITLE : CAMSHAFT DRIVING DEVICE OF  
V-TYPE ENGINE



ABSTRACT : PURPOSE: To prevent a rocker arm for exhaust from making buckling deformation and also suppressing extension of a cam chain by arranging each cam chain for transmitting rotating force to each camshaft in such a way as to differentiate the rotating direction of each camshaft arranged on each cylinder head.

CONSTITUTION: When a V-type engine 2 is driven, a crank sprocket 12 is, rotated for example, to the right, and rotating force thereof is transmitted through a second cam chain 28. An oil pump sprocket 24 is thus rotated to the right, and the outer sprocket of a water pump sprocket 22 is rotated to the left, and also a second sprocket 20 is rotated to the right. At the same time, an inner sprocket arranged coaxially with the outer sprocket of the water pump sprocket 22 is rotated to the left in the same way, and rotating force thereof is transmitted through a first cam chain 26. A first sprocket 16 is thus rotated to the left so as to differentiate the rotating directions of the first and second sprockets 16, 20 from each other as a result.

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